

THE TECH

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GREAT ENGINEERS NEED IMAGINATION.

SAYS DR. HALE IN TECHNOLOGY REVIEW.

Tech Needs Course in Evolution and More Research.

Of special interest in the October Technology Review, which has just been issued, is a Plea for the Imaginative Element in Technical Education, by George E. Hale, ScD., LL. D., director of the solar observatory of the Carnegie Institution of Washington, a graduate from the Institute in the Class of 1890, Course VIII.

There are also articles on George Wigglesworth, who, on account of the increasing pressure of his own affairs, has been obliged to resign from the position of Treasurer of the Corporation, and on the new Treasurer, Francis Russell Hart, 1888, and the acting President, Arthur Amos Noyes, 1886.

General Institute news is next given in brief, and an account of doings of the undergraduates and graduates and news of the classes.

Mr. Hale brings out that Technology to produce great engineers must develop in its students breadth and scientific imagination. He says in part:

"There is no strong reason for the belief held, with few exceptions, by our ablest university presidents that an institute of technology should be essentially a graduate school, in the same rank with schools of law and medicine. For many years the best law schools have recruited their students from the graduates of colleges, and some of the leading medical schools have adopted the same principle. It has been felt that no amount of purely technical knowledge can replace the advantages of a broader culture and the better understanding of the affairs of the work which its possession implies.

It is possible that the average member of a technological school is in more danger of a narrow outlook than any other class of students.

"He does not yet know that to become a great engineer he should cultivate not merely his acquaintance with the details of construction, but in no less degree his breadth of view and the highest powers of his imagination. The greatest advances, whether in engineering, in pure science, in art, or in any other field, arise in mental pictures. It should be the purpose of the Institute to contribute to the world the largest possible proportion of men capable of conceiving great projects, and the smallest possible proportion of men whose ambition can be completely satisfied by the work of executing them.

"I believe that three means contributing toward the accomplishment of this result should be considered:—

1. As a probable development of the future, the requirement of at least two years of general college work for entrance.

2. As a partial alternative under existing conditions, the allotment of as much time as can be spared to general studies in the Institute's curriculum, and the creation of new opportunities outside of regular work, for developing the social and cultured sides of the student.

3. As essential needs under all circumstances:

(a) Insistence upon the paramount importance of fundamental principles, as distinguished from specific facts and technical details.

(b) The fullest possible recognition and use of the educational value of science, both in its cultured aspects and in the means it affords of developing the reasoning powers and the constructive imagination.

"Let us consider these points in the above order:—

"It may be taken for granted that the progress of engineering will cause more and more difficulty in providing suitable technical instruction in a four years' course. The inevitable tendency is, therefore, for the purely technical courses to crowd out other work.

"It may be expected, then, that the future will see the best of the technical courses in two years instead of four.

(Continued on page 3.)

ENCOURAGING OUTLOOK FOR TRACK TEAM.

REVIEW OF FALL SEASON SHOWS WELL BALANCED SQUAD.

Has Received Some Valuable Additions From Freshman Class.

A general review of the track season this fall reveals a most encouraging situation. The squad that has been working all fall has been larger than ever before. The Freshmen have shown up remarkably well and with most of the men of last year's team back at the Institute such valuable new additions will help a great deal toward turning out a very strong team.

It is most gratifying to note the good work that Coach Kanaly has done this season, especially when it is considered that he was entirely new to the peculiar athletic conditions that exist at the Institute.

One of the most important things in connection with a team of any sort is the spirit that is shown by it in competition. With the regular track team this year the competitive spirit has been very prominent and that such is the case is most commendable. Very often this has not been the case with Technology athletics, but conditions this season are much improved.

With the start of the regular varsity track season the prospects are most favorable, and Captain Orr is to be congratulated on the fine opportunities that are open for him and his team this year. The team seems much better balanced than it has ever been in recent years and this is a factor that contributes in a great extent to the success or failure of any track aggregation.

The dashes, middle distance, pole vault and high jump will be taken care of by several of the veterans, Gram, Gimson, Capt. Orr, Rapelye, Blackburn, and Allen, who will be helped out by the work of several promising Freshmen.

As usual the hurdles, broad jump, and weight events are not in very good condition, but several very encouraging men have shown up for them this season. It is very possible that Coach Kanaly may be able to fill up these gaps in some way or other.

On the whole the outlook is very encouraging and Tech should have a high class and well-balanced team to represent it this year.

HASTINGS, '07, MAKES COURSE POPULAR.

Grad of Institute is Building up Course at Bowdoin.

Under Hudson B. Hastings, '07, the new courses in mechanical drawing, descriptive geometry and surveying at Bowdoin have proved very popular. Twenty men are taking the course in mechanical drawing and descriptive geometry, and eight are taking surveying, which this year is only open to seniors. The courses were established so that men who are going to follow up the sciences may have the advantages of four years of liberal arts as a foundation for higher technical training. These courses also enable men to complete their studies in any of the leading technical schools of the country in two years.

Mr. Hastings is a graduate of Phillips Exeter Academy and of Course I. While at Tech he was president of the Civil Engineering Society, a member of the Banjo Club, a member and manager of the golf team, vice-president of the Co-operative Society and class day orator. Mr. Hastings aims to cover the same amount of ground in his courses at Bowdoin as is covered in similar courses at the Institute, at Cornell and at other leading technical institutions. Arrangements have been made whereby the authorities here have agreed to accept these courses at Bowdoin as the equivalent of similar courses so that a student having taken them at Bowdoin is able to complete the entire course of Technology in two years instead of four.

The International Y. M. C. A. Convention will be held this year at Washington, D. C., Nov. 22nd to 26th. Any Tech men who can go down will be entertained by the Technology Club of that city. This is not only the best kind of chance to take this beautiful trip, but will help in a great degree to put Tech toward the front of Collegiate Y. M. C. A.

SUMMER SCHOOL ADVO- CATED AT CIVIL SMOKER.

SPEAKERS CALL ATTENTION TO SOCIAL SIDE.

Good Attendance at First C E Meeting of Year.

Monday evening the Civil Engineering Society held its first smoker of the season at the Union. The speakers were Professors Swain, Moore, Allen, and Porter. Pres. Parlin first called upon Prof. Swain, who, on account of a severe cold, confined his remarks to an expression of good-will to the students and belief in the value of the society, both socially and educationally. The next speaker was Prof. Moore, a new arrival this year from the University of Illinois. He spoke briefly on the professional societies at the different colleges with which he had been connected.

Professor Allen responded to the next call with an argument for the development of the social side of the engineer. The broadest men succeeded best, he said. At Tech, work stands first; it is what we came here for; but we can live only one life, and if we fail to get all we can out of it, we must blame ourselves. Prof. Allen advocated the professional summer schools as the best social enterprise connected with the Institute, and the professional societies next. He closed by pointing out the fact that Tech gets a better mixture of men than any other engineering school, as men come here from all over the earth.

Professor Porter spoke next on the same general topic. He mentioned summer school and the society, and said he believed the society would be more effective if its regular meetings were less like ordinary class exercises. He advocated dinners at the Union as often as possible, saying they would be easier, pleasanter, and more beneficial than afternoon gathering in a class-room at the end of a hard day's work. His last words of the evening were to the effect that head-work, wisely directed, always gets there.

CADET OFFICERS APPROVED.

Many Sophomores and Freshmen Receive Appointments

The following appointments to the M. I. T. Corps of Cadets have been approved by President Noyes:

Major, A. D. Keables; Chief Musician, R. K. Armes; Sergeant-Major, H. A. Sweitzer; Color Sergeant, W. K. Hodgman; Captains, C. N. White, J. T. Whitney, L. G. Rowe, and C. H. Shaw; 1st Lieutenants, W. N. Drew, E. J. Jenckes, R. H. Wilbur, G. E. Meirs; 2nd Lieutenants, W. J. Orchard, R. D. McIntyre, H. Schreiber, H. G. Reynolds; 1st Sergeants, L. B. Weeks, K. W. Faunce, C. S. Anderson, W. E. Connolly; Sergeants, Company A; C. L. Ofenstein, C. R. Perry, J. E. Rush, J. J. Devlin; Company B; C. P. Kerr, C. R. Johnson, E. D. Weisberg, K. Barr, Company C; D. N. Frazier, A. Morris, L. G. Glazier, G. E. Hodges, Company D; R. D. Francis, S. H. Cornell, J. A. Herlihy, R. H. Ranger, Corporals, Co. A; L. C. Creighton, J. P. Duffy, C. H. Merrill, D. P. Gaillard, A. F. Leary, Co. B; G. B. Forrestall, H. C. Davis, M. W. Hopkins, C. W. Eaton, H. J. Wood, F. J. Evans, Co. C; H. B. Knowles, L. P. Golden, S. H. Hartshorn, R. Emmel, W. L. Doane, W. Hildebrand, Co. D; R. H. Lord, R. E. Runils, O. W. Stewart, H. E. Babbitt, C. L. Pepper, P. E. Burnham.

TECH Y. M. C. A. TO ATTEND.

The International Y. M. C. A. Convention will be held this year at Washington, D. C., Nov. 22nd to 26th. Any Tech men who can go down will be entertained by the Technology Club of that city. This is not only the best kind of chance to take this beautiful trip, but will help in a great degree to put Tech toward the front of Collegiate Y. M. C. A.

FRESHMEN HAVE A FORMIDABLE CLASS.

285 REPLY TO REQUEST FOR ATHLETIC STATISTICS.

Nine-Foot Five-Year-Old Still at Large.

The Freshmen Class is 3351 years old, 1615 feet tall, and weighs over 18 tons. So say the statistics which were handed in to the Advisory Council on Athletics by the new comers.

With his registration material, each Freshman received a card asking his age, height, weight, preparatory school, exercise habitually taken, and athletic training. 285 men were heard from, and the cards, which have recently been filled and tabulated, bring to light some interesting points.

The oldest man, according to the statistics, has seen twenty-six winters and summers, while the youngest is but five years old. This same infant prodigy professes to be nine feet tall and to weigh 145 pounds. It is feared that this side show attraction must have disappeared after registration, for he was not seen at Field Day. It will not be necessary to mention any names, but his initials were Harold M. Hallett. There are three sixteen-year olders; the average being somewhat over eighteen years and eight months.

There are two midgets in the class who claim to come under 5 ft. 1 in.; to date no one has been found to overtop the nine-foot boy. Freddie W., who stands 6 ft. 5 in. in slippers, is a poor second. Eight men considered their height so insignificant as not to be worth mentioning, but one had the forethought to say that his was "unknown." 5 ft. 8 in. was the average for the class.

In weight 1911 averages 140.3 pounds. In the heavy-weight class Clyde R., with his 224 avoirdupois, easily captures first laurels; the lightest boy barely tips the scales at 110.

The fourth question brought out much material on the popular idea of the best prep school for Tech. Among the more (Continued on page 3.)

INSTITUTE COMMITTEE CHOOSES OFFICERS.

Rapelye 1908, Gram 1909, and Saul 1910, Elected.

The Institute Committee met for the first time Monday at 1 o'clock in the Trophy room. George Glover, 1908, called the meeting to order and nominations were opened for offices. Harry Rapelye, president of the Senior Class, was elected president. Carl W. Gram, 1909, was elected vice-president and Saul, 1910, was made secretary and treasurer.

The suggestions of THE TECH were spoken of favorably, but it was agreed to leave the business to be taken up at the next meeting.

HARE AND HOUNDS HOLD LAST RUN.

Good Preparatory For Annual Handicap Race.

The Hare and Hounds chase this week will be at Highland Station, West Roxbury. A heavy trail will be laid over the eight mile course, over which is to be run the annual handicap race. There will be three hares. This is not a hard course, and the usual slow pace will be set. Since the Cross Country Team will have other work that day, M. Ames, 1908, last year's chase captain, will have charge of the run.

The object of the run is to familiarize the men with the handicap course. The importance of showing up Saturday is obvious when it is recalled that one man failed to finish in the race last year because he lost his way. The handicap run comes off this year on Nov. 30. Several handicaps are given each year, so that every man has a show, no matter how slow he is. Three prizes are given, for first place, second place, and for the fastest time. The insignia of the race is given to the four men making the best time. The entry fee will be 50 cents.

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Wednesday, November 20, 1907.

THE TECH regrets to announce the resignation of Raymond W. Parlin, 1908, from the business staff. J. Newell Stephenson, 1909, and Dudley Clapp, 1910, are appointed to the News Staff.

CULTURAL STUDIES.

The extract from Dr. Hale's article in this issue on the imaginative element in technical education shows that the members of a technological school more than any other class of students are in danger of a narrow outlook and he outlines how this may be obviated. The whole is clearly developed except that in drawing parallels between the study of engineering, Dr. Hale does not seem to take into account that medicine and law are essentially more cultural studies. This is the weakness in his plan. He would have Technology follow the example of law and medical schools and require some years of general college preparation. So far his idea is good, but his subsequent reasoning seems faulty. He goes on to advocate broader preparation because it would remove the necessity of general studies in the Institute curriculum and leave more time for pure science and professional studies. In the study of law and medicine this would be possible, but engineering has not their broadening effect.

It is hardly reasonable to believe that cramming a young fellow with two years of "humanities" will make him immune to the narrowing effect of four more years of strictly technical work. Cultural studies should form a part of the student's entire course of study. Also he should be impressed with their value so that after graduation he will keep up with general reading, social affairs, and other training of a broad nature.

RULES FOR COMPETITION.

In answer to several inquiries a definite set of rules to govern the competition for THE TECH'S inserts in Technique 1909 has been drawn up and is published below. It hardly needs be said that a man does not have to hand in a drawing for each insert in order to be eligible for the competition; nevertheless it will be desirable to have the same or similar ideas expressed in two drawings, and the harmony which can be secured by using two such designs will be considered in awarding the prizes. The jury of award will be composed of Prof. H. W. Gardner of the Architectural Department, Miss Helen Longyear, art editor of Technique, and W. Fred Dolke, Jr., managing editor of THE TECH. The decision of this jury will be passed upon by the Board of Editors before being final.

The rules are as follows:

1. Drawings must be in black and white, ready for reproduction. Sketches will not be accepted.
2. All drawings must be handed in by 1.00 P. M. Saturday, December 21, 1907. Time will NOT be extended.
3. Each drawing must be marked by a monogram or symbol, which must also be put on the outside of a sealed envelope containing the name of the artist.
4. All drawings, whether or not used in Technique 1909, will become the property of THE TECH, and THE TECH reserves the right to refuse to award a prize if no drawing is acceptable for use.
5. No man connected in any way with THE TECH at present will be allowed to enter the competition.

COMMUNICATION.

To the Editor of THE TECH:

We beg to inform the readers of THE TECH that last year there was no competition for the position of Assistant Manager of the Fencing Team whatever. The members of the team in their endeavor to find a man for that position tried the "Junior" in question and found him lacking the requisites of a manager, one of whose duties is to represent the Institute of Technology at the meetings of the Intercollegiate Fencing Association of America.

The captain of a team, we would like to remind you, has no authority to appoint a manager. It is function of the Athletic Association and the Advisory Council. Neither of which were approached on the matter in question. The captain in this case considered him merely as a candidate trying for the position of Assistant Manager. Furthermore, at a meeting of the Fencing Team, at the end of the last season, it was unanimously decided that he was not the man for the place.

Would the members of the Athletic Association like to force a man upon the Fencing Team who is entirely in discord with it, for in a team of this character harmony is the keynote of success? Such we know is not the case, for we are sure they take the success of the team at heart. What effect would the election of this man as manager, in direct opposition to all members of the Fencing Team, have? The number of fencers has always been small, and opposition to them might kill the sport.

Kindly publish in Wednesday's (Nov. 20th) TECH this Communication in answer to the Editorial on "Fencing Manager" of November 18th, 1907.

H. D. BOUNETHEAU,
E. M. LORING,
A. S. PLACE,
F. J. LANGE.

VIVE LE ROI.

At a meeting of the Round Table club yesterday the following officers were elected: King Arthur, Robert Farrington Maxey; Merlin, Douglas Crawford McMurtrie; Sir Lancelot, Forrester Barstow Avery; Sir Galahad, George Mackay Roads. Several men were put up for membership in the club and their names will be acted on at the next meeting.

NOTICE

Students are invited to send literature to Mr. Wm. McIver, Steward of Tech Union, to be distributed by Boston Seaman's Friend Society among the sailors in Boston Harbor.

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GREAT ENGINEERS NEED IMAGINATION.

(Continued from page 1.)
ogical school requiring part, at least, of an ordinary college course for entrance.

"The rapid increase in the number of college graduates at the Institute, and the establishment of a three years' course for them, leading to an M. S. degree, are significant signs of the times.

"Further experience will show whether so radical a departure is essential. For the present we may consider the ordinary course limited to four years, and inquire whether it is possible to improve it in any considerable degree.

"It may be hoped that the successful efforts made by the Faculty to retain a considerable number of general studies will be followed by an attempt to extend the scope of this work. The Institute graduate is in no less need than the Harvard graduate of a knowledge of history, literature, language, and art. His work should occupy a field, in which an understanding of the impelling motives and the probable actions, under given conditions, of other men is one of the first essentials of success.

"In remarking upon the desirability of cultivating the scientific imagination and of developing that breadth of view which is most effectively acquired through reflection and experience, I have had in mind the fact that the most fertile and inspiring of all scientific theories has never, it would appear, received adequate recognition in the curriculum of educational institutions. I refer to the theory of evolution.

"The natural tendency of the student, from which few escape, is to regard science as partitioned off into compartments, each more or less sufficient unto itself. The theory of evolution, on account of its endless range and its importance in almost every branch of science, may serve as the best means of illustrating the arbitrary nature of the boundary lines that have been drawn.

"The personal side should not be forgotten. What better stimulus could be offered the student than that arising from an acquaintance with Darwin, in the quiet surroundings of his home, removed from the centres of intellectual activity, hampered by constant illness, and yet pursuing long and patiently those simple yet remarkable researches which formed the basis of "The Origin of Species?" And what a splendid contrast is afforded by the striking successes of Huxley, won in the midst of the turmoil of London, under the constant pressure of innumerable public duties.

"It is nevertheless well to remember that no amount of imagination can replace a lack of common sense. Moreover, the necessity of discriminating between projects that are likely to work out well in practice and those that are merely ingenious, while devoid of genuine merit, must always be borne upon the student's attention. Sound training

and severe practical experience must furnish the required criteria. I would support a movement which might extend still further the scope and the importance of the technical departments. The rapid development and brilliant success of the Research Laboratory of Physical Chemistry are well known. I believe not only in the establishment of such a laboratory in connection with the department of physics, but also in those departments which are more directly concerned with industrial progress."

FRESHMEN HAVE FORMIDABLE CLASS.

(Continued from page 1.)
prominent ones mentioned were Harvard, Brown University, University of Illinois, University of Washington, and Holy Cross. Mechanic Arts holds the lead for numbers, with fourteen entrants. Five military schools are in the list, and 71 other schools are heard from, all the way from Terrill's in Dallas, Texas, to Giotikoni's in the far East.

Some of the most amusing material came in answer to the question, "What exercise habitually taken?" Some of the more noticeable answers are here given, spelling guaranteed; physical drill, canoeing during summer, turner work, any outdoor, field exercise, nothing particular, callisthenics, some walking, breathing, muscular work, nothing special, drill, bicycle, pulling, all kinds manual labor, sports in season, eating and walking, dumb bells. Theodore P. J., professes to do "anything." 65 Freshmen walk. 21 said "none;" they apparently ride.

The last question gives an insight into the athletic prowess of 1911. 50 Freshmen should have shown up for class football, as that number have played in prep school. There are 30 general track men, 21 specialized in running, four broad and high jumpers, two pole vaulters and two hurdlers. Baseball management can call on 32 men who have proficiency in that line. Then there are 22 gymnasts, 24 tennis players, 21 basketball men, 11 hockeyites, 6 swimmers, three fencers, and two water poloists. One man can play golf; another plays handball quite well, and a third claims previous training in dancing. 1911 could organize a creditable crew with her 11 candidates, including a prep-school captain and a coxswain.

Some were bashful in answering this last question; others were not. One man ran off at the end of his card trying to tell of his accomplishments, viz., "regular gym work, 100, 220, 440 yd. dashes, also indoor dashes, 3 standing jumps and relay work." Donald R. was on "all class teams." One man holds forth in "various lines of sport," while another whom the gods call Mitchell can do "fancy work on the gym apparatus." In sad contrast is the man who, though he later proved good enough for the 1911 Relay Team, claimed that he was "poor at low hurdles and 220."

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